Rec'd April 24
Ans same day

Little Rock, Ark.
April 21, 1893.

Dr. Engelmann
Sir-

Can you give
me the address of
Mr. Lee. Lesquereux the
Botanist, and inform
me whether there is
any catalogue of
N. American plants
of recent date? If you
will be writing as
to, pray me the de-
sired information you
will much oblige
Yours respectfully
C. D. Butler.

Dr Engelmann
St Louis Mo.

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Rec March 25
Ans

Atoka, Indian Territory
March 19th 1874

Dr G. Engelmann,
St. Louis Mo:

Dear Sir:—

I came to this place not long since. Have found a large quantity of at least one species of Yucca. Y. recurvifolia. Will send you specimens should you desire. In what manner should such a plant be dried so as to preserve the representation part of it? I have found a cactus which has joints about 1½ inches long to the number of about 20 from one receptacle, surmounting the root. each joint is covered by about 18 thorns

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The fruit is a red berry with black seeds. They (the berries) are last year. the thorns surrounding the joints forming such a mat as to hold most of the berries in place. No description is given by Gray or Chapman. What do you think it? Any service I can render you will be cheerfully accorded.

Very respectfully
L. D. Butler

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Rec'd April 23
Ans. May 3

Atoka, Indian Territory.
April, 19th 1874.

Dr Jos. Engelmann,
St Louis. Mo:—

Dear Sir.

Your favr came during a temporary absence of mine, and could therefor not be responded to as soon as I could have desired. I have boxed up a plant of Yucca today and will send by this mail. The specimen is not a fair one. the leaves being a little narrow than the average. A prairie fire occurring last autumn destroyed all the flower stalks and capsules! The leaves are occasionally killed as I suppose by the fire & ~~these~~ appear to have been burned. I could have procured a specimen of this latter nature which has at present new leaves of about 6 inches length and broader than the specimen sent but which are not yet full grown. Enclosed in the same box with the Yucca is the cactus I referred to. Nuttall found Yucca angustifolia in Arkansas (vide Nuttalls Sylvanus report on the botany of Arkansas in 1860)

I found a day or so since large quantities of a Fraxinus differing from Fraxinus Virginica in this. The leaves are covered with minute glands except upon the veins. The floral leaves are purple margined, flowers both axillary and terminal and are from 1½ — 2 inches in diameter. I could notice no other pe-

tips of the sepals hairy.

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culiarity.

In the same locality are quantities of Amianthium angustifolium. in which the parts of the flowers are often in fours as in lilies or sun work often in fours. The flower clusters are paniculate at the base and racemose toward the apex.

I found here Barbarea vulgaris which I believe has not been noticed as far south before. In blossom at the middle of this month.

Also a species of Astragalus which I am unable to determine. Will send you a specimen shortly.

Very Respectfully
G. D. Butler.

Anemone Caroliniana can be found here of any grade between pure white and deep purple.

H. W. B.

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Rec'd May 14
ans — 15

Butler

Stoka I. T.
May 11th 1874

Dr Geo Engelmann
St Louis Mo.

Dear Sir:-

I regret to say that I am unable to send you a specimen of the Amianthium in flower. Its season has past. I have found some of the old capsules & seeds of the Yucca which I send you to-day. with a leaf or so of this years growth and some full flower buds. The capsules which I found are on stems from 3 to 6 feet in height. The scapes of this years

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growth are purplish in
every case and the more
vigorous are dark brown pur-
ple. I should call it. The
leaf becomes narrower with
age apparently.
I have enclosed a few
leaflets of the Astragalus
which agrees with A.
Plattensis with except-
ion flowers are purple or
pink. never cream colored
about 1 inch long. Pod is not
villous. but is purply when
fully ripened. The flowers ap-
peared early in March and
are still numerous.
The other day I found an
Oxytropis. I could only find
one plant which I did not
preserve. expecting to find more
in which I have not suc-
ceeded. The leaves are

heart shaped coriaceous
of about the texture of
the leaves of Cucullia tu-
berosa. The flowers are of
the color of the flowers of Cy-
noglossum officinale & dotty.
the plant was 3 feet high.
leaves 3 inches wide and 4
inches long. flowers usually
3 in an involucre. Stamens
5.

Lathyrus palustris and L.
pycilus occur together here,
known of no other Caddo
Stoka co 5-5- miles south
of the Texas line on Red
River on the Mo. Kans.
& Tex. R.R. I am 20 miles
south of Stoka at present.
with I could get copies books
now applicable to these comm-
by their Gray's Manual
or Chapman's. but

I know of none. I have tried to get or borrow a work which is entitled "Suttalls travels in Ark. Terr." I believe.

Very Respectfully
Wm D. Butler

I am very much obliged to you for the valuable information in your letter.

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Rec' May 26th
Ans — 28

Alaska Ind. Terr.
May 22nd 1874

Dr Jno. Engelmann

Dear Sir:—

Since I wrote you
latter I have been out looking
at Yuccas.

The stigmas are always
green.

The panicle is sometimes
branched at the bottom or as
often in the middle

The lowest flowers are usually
a foot from the ground; more
often more, than less than a
foot, the bracts continuing lower
down the lowest pair foliaceous,
or like the leaves, green. persistent
and filamentose, some about 6
inches from the bottom of the

ecaps.

The flowers are sometimes (light) green or white but are usually tinged with purple, as are the bracts and ecaps.

I can find the genus only on a limestone ridge.

I ran across a Sedum the other day which is decandrous, sepals 5, petals 5, and yellow, the stamens alternate with them not fertile opposite stamens fertile. Leaves terete very juicy and fleshy. Calyx tubes the same. It grows 1-4 inches high. has the flowers received on the branches of the cyme. Leaves sessile, crowded, alternate, leaves in dry places

I find Polygala cruciata simplex common here. has the pedicels of the sterile flowers shorter than the fertile. They appear to run

not clear, but rather stout and straight. I will try and send you a spr
Has the Lespm been named?
There is an Amorpha here with 3 or 4 spikes together. I have supposed it to be A. paniculata Torr & Gray, but have seen no description. Will send a sp.
There is a leguminous, perennial beard tree with leaflets slightly crescent shaped. Can you determine it from the leaves? I will send sp. Pods ripened, bark very grey from Black birch like to find oak like. Part of this is hearsay evidence. the leguminous part.

Yucca is a Choctaw word meaning "a prisoner" but I do not know whether it is applied to bear-grass.

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Do not expect the spi corn.
I shall be unable to send them
inside of two wks. In the mean
time I should be quite glad
to hear from you. Have you
hybridized oxalis in your hort.
If not I would be pleased to
contribute my only spare
sp., gathered in Ark.

Very truly yours
L. D. Butler

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Rec'd Oct 3d
Ans Oct 10

Atoka Ind. Ter Sept 4 94

Dr Sir, Enclosed

I send you

[illegible]

[illegible]

[illegible]

[illegible]

Red, scarlet, turkey, water, willow, black jack, grecup, live, post, and chestnut oaks grow here.

I have never seen but one plant of Sarcostes melampoda here. I dont know unable to find more. There is my little stay- apart when here at this season.

I am now found Plantago heterophylla.

There are seven species which I will here describe

1. Gindelea
2. Corepsis
3. Iva
4. Iva
5. Iva
6. Iva
7. Iva
8. Iva

ulmifolia
tenuifolia
axillaris
laevigata ?
Hooveria latifolia
angustifolia
xanthiifolia ciliata

agura

stricta

violacea

procumbens

depens

nyctaginea

graphica.

18. Crinum. I am forced
to send a green, & to
get it with the Skin.
I have noticed a gemination
on the back of Columnefera. The
leaves are two in number
Stamps. Is it accounted for?
Hoping to hear from you
soon, I remain respectfully
Yours
R. Butler
Leaves of the Crinum reflect, rarely
or with a number from

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a coated pith. Development very rapid growth in absence of air or sunlight.

1873

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Rec Nov 13th
Ans Dec 20

Dear Sir:

I am sorry that I do not remember your request for specimens of Lobelia Syphilitica, but I send a bunch with seeds for you & will send you a second time if you desire it. I send you specimens of 2 Phallus impudicus, 2 Lycoperdon gemmatum, 2 Lycoperdon giganteum, 2 Lycoperdon pyriforme, 2 Lycoperdon saccatum, 2 Lycoperdon cepaeforme, 2 Lycoperdon Bovista, 2 Lycoperdon Bovista var. nigrescens, 2 Lycoperdon Bovista var. hiemale, 2 Lycoperdon Bovista var. Candidum, 2 Lycoperdon Bovista var. Cretaceum, 2 Lycoperdon Bovista var. Fuscum, 2 Lycoperdon Bovista var. Fuscum, 2 Lycoperdon Bovista var. Fusc

5 parts, fern-like. The 3 petals joined at the tips on the inner surface. Flowers white with purple lines on the outside (4-6 inches) across. Fruit a 2-parted pith. Stamens 5 with 1-2 stamens twice as long as the others. Leaves in the summer (1/2" wide) linear (10-12 in. long) shiny dark green, fleshy, Blooms in Aug.-Sept. Fruit ripens in Aug. 2 inches to 5 feet high. Found in rocky places in prairies when it is quite rare and in yards when it is large and showy. Attracts many insects. Flowers are fully expanded only during the forenoon. When picked it has a simple stem. The leaves are used for making [illegible] I have seen two species of Yucca in Missouri prairies and pastures. SHOT TOWER.

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Rec Nov 13 1874
Ans Dec 20

J. D. Butler

I want you to - [illegible]
for certainty. a few [illegible]
I Quercus Phellos, I was unable
to procure vetter oies. 2. aquatica
is all or 2. nigra & 2. rubra fulfil au-
thority to bear fruit this year. The
second finding rules however I am
in abundance of acorns. The
[illegible] rather rotundus bulks of
Carpesia Drummondii" and
roots of the cuspis are Quercifolium
which I count give some time since Dr.
Lewis sent Professor Asa Gray I solicited
the cuspis.
I [illegible]
of Green Mountain? a [illegible]
Quercus, leaves of which I will [illegible]
in spirits in which [illegible]
the [illegible]
Xsolitary [illegible]

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2. Solidago ——?
3. ——?
4. Solidago canadensis
5. Aster ——?
6. ——?
7. Aster ——? acuminatus Ng
8. Euphorbia ——? Hypericifolia
9. Euphorbia ——?
10. Cheilanthes lanuginosa ?
11. Cyperus ——? pseudo-?
12. Carpesium Drummondii ? Wolf
13. Solidago ——?
14. Gnaphalium additional specimen
15. Yucca filamentosa
16. Paspalum ——? Floridanum Flugge
17. ——? Scabrum ? Ng
18. ——? strict Plant ??

The Cheilanthes I found
one plant ✗ in a dark
fern deep ravine not known growing
in dry rocks.

No 9. Euphorbia ——? near Canadensis
ridge running the rocks

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I inclose a specimen of Epipactis ____? determinis.

I have noticed several times of late Cercataegus tomentosa in flower this autumn, together with a great many hollow, properly flowering as usual, probably caused by a worm which we have found in the ovary.

Very Respectfully
Geo. H. Pettis

Fellows Co Ark

MISSOURI BOTANICAL GARDEN
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MISSOURI BOTANICAL GARDEN

Rec'd March 10th
Ans same day

Stringtown Ind Ter.
March 7th 1875

Dr Sirs Engelmann
& Sons Locust St.
St Louis, Mo.

Dear Sir:—

I have been absent from the Indian Country since the receipt of your last letter instructing me from ourse-ving corner.

I am sorry that in many cases I have been obliged to send bouquets & plants to you, but I have labored under many difficulties, & will do better this season.

I will send you today a

package containing.

1 Potentilla Argyrea Engelm
2 Solidago petiolaris
3 Aster ptarmicoides ? Heads only
4 Calamagrostis ? Wrong species
5 Muhlenbergia ? Poa sp.
6 ——— Aster All
7 Cyperus
8 Juncus All D. kun.
9 Lespedeza hirta
10 Solidago
11 Aster
12 Euphorbia ? All I have seen of the plant
13 Aster heterophylla
14 ——— Aster — white
15 Aster Carneus
16 Aster
17 Cornus. Nuttallii

Some of these are fragments
Hereafter I will take care
to gather good specimens.
I've got the Gnidelia which
I have sent to you heretofore

a distinct species from H. luna-
tevelata Nutt.?
Is Achyranthes nitens Ell. found
elsewhere than in Ark and
Ind Ter?
Hoping to hear from you.
I am
Yours respectfully
Jno. D. Butler

MISSOURI BOTANICAL GARDEN
ENGELMANN PAPERS

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Rec'd July 26th
Ans 28

Limestone Gap Indian Territory
July 23 1875

Dr. Geo. Engelmann

Dear Sir:-

I am situated 110 miles south of Fort Gibson, entirely out of the Arkansas river basin on the head waters of Red River streams. Hence it seems probable that a plant so rare as your Potentilla pentandra should not occur here, I have looked for it last year and this. I have found no Potentilla except the ordinary form of P. Canadensis.

The Pylulania I will look for carefully. How long are the leaves? Is the color dark green like Sedges? This fact helps most in finding that plant, mixed as it is with Fimbristylis and other small grass

The Callirhoes, (varieties of C. digitata Nutt, you have named them.) I considered specifically different at the time of gathering, and did not study them as much as I would, had I thought otherwise. The specimens I sent you are complete except that the stems are numerous (about 8-12). The fringe or border of the corollas differ equally as much as the leaves. I am not certain, although it holds good in about a dozen specimens examined, but I think that there is also a constant difference in the shape of the root: the one napiform, the other fusiform, both edible, forming the entire subsistence of Sioux during the Spring. Both grow on prairies in great abundance at ~~time~~ places. The flowers of both vary from white to rose color, are never purple. I shall study them more.

There must be some mistake about the stamens of

2

or perhaps I made a mistake in putting them up. Chapman's says "bulb small." The bulb of No. 1 (package herewith sent) is ½ to ¾ inches diameter covered with a brown husk of (decayed leaves). No 2 bulb about ¼ - ⅓ inch in diameter. "Flowers mostly solitary, terminal." No 1 has always central flowers terminal and from the axils of bracts. No 2 has always 2 flowers one terminal the other concealed under the uppermost bract and developing much later than the first. I did not have an opportunity to see the second flower in blossom. "Pine barrens" Both are prairie flowers, exclusively here, "May & June" The first blooms in April the second in June after the first has entirely disappeared. "Flowers bright blue" True of the first, but No. 2 has flowers of a purplish blue, more purple than blue. The leaves differ very much I am not well posted on the natural shape of leaves of No 1 but a cross section of leaves of No. 2 would be about like this — #. That is, they are so constructed at the base and so winged or plaited on the surface, as to appear turned edgewise, being thicker (meaning the wings) than wide. Bulbs of No. 1 are edible and called "grass nuts" by the Indians. Flowers of No. 1 are diurnal, of No 2 nocturnal opening when the sun is about an hour high and closing at about the same time A. M. Unfortunately I have no bulbs of No. 1.

(3.) Morrisa iridata Nutt grows in the Ark. Valley as far east about Fort Smith & W. fistulosa & grows here, but leaves pointed at base & flowers purplish blue fading to rose color in drying. (5.) The other species has always white flowers the inner lip dotted with red. It is common; grows on dry, sandy, timbered soil, Blooms in May. I had supposed it was

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3 Nov. 24 26 1875

Nullis. H. Runcinatum. but had no description
Head always small, terminal. only a few flowers opening at once, taking their turn as it were. Time of blossoming agrees with H. Bradburianum Beck, commencing in April = Northern Iowa, ending in June = N. July the same head producing flowers over a month.
Stems often single, usually 2 or more from the same root stock. which is perennial. Seldom branched and only low down; about 18 in. high. Leaves lanceolate, short petioled. short hairs only on the margin and midrib beneath. Calyx scarcely at all contracted. Corolla always white 3 times as long as the calyx; lower lip dotted with red upper lip not hairy at the tip. The specimens are fair & complete except root. The leaves are all there.

6. Hymenoxys corymbosa, var. Nuttalliana T. & G. I send what I can spare, but very the specimens are mutilated and am afraid I can get no seed this season.
Gathered in April.

7. Sowerbia. Specimens gathered on dry ground. } all I have except 1 of each
8. Do " " in a damp pitch sink near by.
First week in June.

GEORGE ENGELMANN PAPERS
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I have looked around place for the large species but have'nt found it. I know a place where it does occur plentifully, which I shall visit lately about 13 miles distant. I am afraid it dries down, too, in summer. grows in soft mud however with water standing in spring & autumn; accompanied by Sagittaria graminea Mx. I found, last year one plant only of this genus, from which I detached a leaf or two and sent you. which you

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4/ recognized as f. melanopoda J. Gay. "

2 Cannot get fruiting specimens of Liatris tuberosa this year. Saw but little of it before. but could have obtained fruiting specimens. which I supposed (at first) I was doing when gathering the L. linearifolia with small est flowers.

9. Lobelia ~~Crawfordii~~ Nutt May — banks.

10 Linnella ~~Leptostegia~~ Isoplexis Nuttallii April — prairies

11 Polygala Nuttallii June — So inclined to Cow places.

12 Croton capitatus — dry prairies.

" glandulosus — fields.

" ~~Eastonopsis~~ Cneorum — Low places

15 Cassaria Drummondii — dry prairies on Compositum & Amorpha fruticosa

16 do glomerata do — dry prairies on Helianthus grumosus &c.

17 Tephrosia ~~onobrychoides~~ virginiana June dry prairies.

18 Corydalis crystallina May thickets. I have seen no description of C. Crystallina Engl: therefore it may be it from glands on siliqua.

19 Hypoxis ~~erecta~~ hirsuta L. Leaves all large, common, woods

20. Hieracium ~~gronovii~~ paniculatum May.

20. Hieracium gronovii do dry sandy woods ridges

21 Salvia pitcheri June.

22 Linum Virginianum ? May 28" prairies.

23 So sulcatum July. sandy woods.

24 Ammannia humilis " Low places.

25 Hypoxis gracilis " " "

26 ~~Lactuca~~ Prenanthes crepidinea ? " fields, introduced

27 Actaea ? spicata ? I believe this is indigenous. I saw it frequently (4 or 5) miles from camp.

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5 Rec'd July 26, 1875

habitation, and then not in patches so that one could think it had accidentally been brought there, but about regularly scattered over the prairie a plant here & there

28 Bouteloua oligostachya Dry prairies, June,
29 Paspalum — fields " "
30. Andropogon scoparius Mich. June. Dry prairies.
31 Elymus Canadensis Linn. " along streams.
32 Agrostis scabra Willd. May. thickets.
33 Poa = 37 May. In a ditch.
34 Poa April. Sandy woods.
35 Poa Schw. Torr. Gray. Dry sandy ridges, woods.
36 Hordeum pusillum Nutt. " Borders of pools, wet places.
37 Bromus Schraderi Kunth. May. In a ditch
38 Bromus ciliatus Linn. June. Alluvial, woods
39 Festuca tenella Willd. " " "
40 Leptochloa filiformis Beck. " Thickets.
41 = 32 ?
42 Festuca tenella Willd. May. Alkaline flats with Juncus.
43 Poa latifolia Linn. " Alluvial woods.
44 Hordeum pusillum Nutt. June. Alkaline flats with Juncus.
45 Poa sylvestris Gray May. Alluvial woods.
46 Bromus racemosus Linn. April. prairies, low places.
47 Eatonia obtusata Gray May & June Prairies & woods
48 Bromus Kalmii Gray. April. Dry sandstone hills, woods.
49 Pentstemon Digitalis Nutt. Prairies, June.
50 Oenothera speciosa Nutt. " " Diurnal
51 I found only two of these plants in April, on the summit of a dry sandstone prairie ridge. Campanulaceae

6/5-2 ~~Silphium~~ Helianthus mollis very common on prairies July.

5-3 Ophioglossum vulgatum. This specimen is unusual on both fronds.

It is always so here in perfect plants. Grows in dense patches on dry slopes. and is abundant 3 remarkable peculiarities besides the unusual fronds.

Please notice that in the specimen of No. 2 Nemastylis the leaves do not present the true surfaces but the edges, as appears from the fact that they are not twisted ¼ round at the base as they would be were the true surfaces drawn out in pen.

The grasses I have had little time to examine. Some are duplicated.

Portulaca pilosa L grows here. Can send you seed if you wish. Should not such a plant be sown with any heavy pressure?

I have catalogued over 600 species of Indian territory plants. actually observed by myself.

Hoping to hear from you

I am very respectfully yours

Geo. D. Butler

MISSOURI BOTANICAL GARDEN
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Rec'd Aug 14
Ans Sept 9

Linnæan Gardens Linnæan Terr.
August 11th 1875

Dr. Geo. Engelmann:-

Dear Sir:-

I received your letter in regard to Ivories some time since. Some of July 28 I did not receive until this morning. I believe the grape you refer to as Post Oak Grape occurs here. The fruit is now ripening slowly. It is dimly tory little. grows in Sandy soil. How shall I preserve the fruit for you? or shall I send it to you unripe? V. vulpina occurs further South. I believe there are 1 or 2 species here which I have not gathered besides V. aestivalis & V. cordifolia.

I have a good many plants to send you but I am and have been very unwell for some time. I cannot put them up. I am the same reason I have been

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unable to look further for the roots of the new species.

I have 40 or 50 Cyperaceous plants which I should like to send you if you will take the trouble to name them.

Do you think it possible that I could obtain a support from the "Government Survey" for a season or two in collecting our flora? I do it is my time to devote to botany is very limited.

I am very much obliged to you for the gift of names.

Very respectfully
Geo. D. Butler

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Rec Febr 18th
Ans 24

Limestone Gap, I. T.
Febr 16th 1876.

Dr. Geo. Engelmann
St. Louis, Mo.

Dear Sir—

I should have written to you sooner, but have been prevented by necessary absence from getting up a few plants which I wished to send you. In the last package I sent was a Lobelia which you referred to L. brevifolia, Nutt. Chapman's description will not agree. He says "leaves short (4"—1 2"long), fleshy, oblong linear" &c and gives the time of blooming as October, while the plant in question blooms in May or June.

~~Seattle~~ Arkansana, is I suppose the name you have given to the new species. The prairie where I found ~~sandy~~ this plant was burned off early and perhaps for this reason it did not grow again in the fall, at least I could find none of it. I will certainly procure an abundance next season.

I send you to day a pkge containing,

1. A plant which grows in places much trodden stenosachys alba by roadsides &c, not common. August. prostrate much branched.
2. Eriogonum? Griffithsii Nutt. prairies. August.
3. Leguminous plant. Woods dry. August. Desmodium Acuminatum
4. Grass. dry woods & prairies. August. Panicum pauperculum Nash
5. Acerates. the only plant I was able to find, although I made careful search. August. rich prairie,

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6. Tricuspis. August. Low prairies,
7. " " "
8. Dry woods. August. Ravine
9. Andropogon. " " &c. "
10. Ditches. borders of streams, &c. August. Ravine
11. Ludwigia. pools & wet ap. —— 1874
12. Rudbeckia dry prairies, June.
13. Borders of pools &c. July. Rhynchospora macrostachya
14. Silphium thickety prairies. June.
15. Dry barren flats. June-July. Alternanthera Achyranthes
16. Serpentaria Thickets. August.
17. Gyrobobus. " "
18. Phaseolus Dry woods. "
19. Helianthus Prairies, yards &c, August.
20. Creek banks. ——
21. Isanthus coeruleus Prairie ridges. Sept.
22. Andropogon. Prairies. Sept
23. Helianthus, " August
24. Oxybaphus. Prairies. "
25. Asclepias. Borders of a ditch, August. This is the 6th species in the Ravine.
26. Lobelia nostiana, Damp roadsides &c

Hoping to hear from you soon

Yours respectfully

Geo. D. Butler.

MISSOURI BOTANICAL GARDEN
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Rec April 19th 1876
Ans same day by P.C.

Dr Geo Engelmann
Dear Sir:—
Your shall
I send living specimens
of the Borrichia? Had I
better cut off the tops,
or mark the locality
& gather some of the fruit-
sticks after the tops die?
I think I can find it
and distinguish from
melampodia, & send you
a couple specimens for
naming next month.
Yours truly
Geo. D. Butler
Lincoln Linn Co Kas
Lud Dem.

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Ark March 23 '
" 25

Lecture Lab. Sept 7
March 2 to 7

Geo. Experiment
Cell Div:

I received a Baker on oaks and a postal card from him some time ago. We have here Quercus stellata Q. macrocarpa. Q. Prinus, var. acuminata, Q. rubra, Q. nigra, Q. Phellos L. aqu. atica and Q. ... Farther south in the Territory is Q. hypoleuca. In the extreme eastern portion I understand that Q. ... Eastward we have ... Q. falcata, and northern with the Arkansas River Q. ...

I was unable to visit the locality of the species Arkansana last year until it was too late to find the leaves. The reason was very due that it matured very much earlier than the previous year. Since this plant occurs (I only know one locality) the ground is so covered with Sumbristylis and weeds as to render the finding of the dead leaves almost an impossibility. I intend to go early every this year to find the young plants and then marking the exact place of a number of them to return later and get the material. I can understand why you gave the name Arkansana as it does not occur in the basin of that river. Oklahomiana (the Choctaw for Red River. being Oklahoma) would have suited better. How far west and how far north? Chapman locates it in Texas

Ile and Dell Rivers. In the botanical work
I am engaged in Dave reported to the Legislature
under the name of Solanum carolinense
but I found in Kansas & Nebraska a variety
which I take to be that described by Dr
Wood as a species, but it must have been a
mistake, that it must have been a
variety.

I send you a specimen of Asclepias
tuberosa which it seems to me ought to be
imported as a name either varietal or spe-
cific, as incarnata, Sanicula, an Asclepias
Phytolacca, an Aesculus which I suppose
to be that Buckley has called A. arguta. The
type of this division agrees well with Prof Dickey
a Sagina a Veronica, a Heleonium a Castilleja
two Umbelliferae and Boucheria.

I beg that you will overlook the
carelessness of some of the specimens, and
that you will give me their names.

Yours truly
W. D. Butler

1 Solanum glaucum
2 Sagina decumbens Torr & Gr
3 Asclepias viridis (Atamtus parviflora)
4 Castilleia purpurea Do
5 Ulmaria Calycosa
6 Leptopoda brachypoda Nutt
7 & 8 Apium (Leptocaulis) Buckleyi
9 Aconitum glaberrimum
10 Myosotis verna
11 Aesculus arguta
12 Asclepias obtusifolia
13 Vitis aestivalis ♂

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Rec'd April 2nd
a— 10 a

Limestone Gap. Ind. Ter.
March 31st 1877.

Dr Geo Engelmann

Dear Sir:

I have your letter of March 26th. As to that Leptocaulis I should have noticed it mine only I thought it was some one of the Arkansas species but as far as my observation goes the small specimen are the primitive form and occured on prairies, the larger specimens were found on the railroad embankments and in fields; both gathered at the same time in the latter part of April 1876. I have quite a stock of specimens. but they are in a box about 10 miles from home; as soon as I can get them I will send you more.

There are several Umbelliferae here having a general resemblance to the one sent.



I have a specimen of the Setaria with the seed stems of the previous year still attached.
That Leptopoda? has 4 lobed corollas,
I will write again as soon as I get my box,

Yours Truly
Prof. D. Butler.

MISSOURI BOTANICAL GARDEN
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Julian virgatum Watt
Lygodesmia aphylla DC
Arenaria Pitcheri Torr
Rec April 30th 1877

Limestone Gap, Ind. Ter.

Dr. Geo. Engelmann,

Dear Sir.-

I enclose an Arenaria collected April 23rd 1877. It grows on dry prairie hills in sandstone, it seems to be a variety of A. Pitcheri but the leaves are fortunately wider, more thinner and the whole plant is subescent ~~with~~ and viscous, also a Galium same date from a Limestone Ridge. I will send you a good stage before long. I have been trying some Baptisias and succeeded by keeping B. leucophaea well unchanged. (turns black in drying, that is it leaves generally turns black. But B. australis always turns black, dead it all my pams. (unchanged in drying Shaker)

The same result with B. leucantha, but B. sphaerocarpa is quite unchanged. I can send you a specimen of this each if you wish. It is however not in fruit yet. I notice that in Porter & Coulters Flora of Colorado Galium Aparine Linn. Prsl. & G. tricornutum Dandy are given as synonyms. Two years ago I collected a Galium from dry sandstone timbered ridges with ascending petals, which you referred to G. Aparine Prsl. Last year I collected another from exactly the same situations all the leaves of the corolla spreading horizontally which you call G. tricornutum Dandy. They seem to be different, hence I suppose they are confounded in the Flora. Am I right? I also enclose a list of species or varieties where I do not know the names by which I you will supply the deficiency I shall be grateful.

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I have a Rhus in mine which shows a tendency to R. aromatica flowers & usually very numerous all along the stem for a part & more specimens with & before the leaves. I am confident that it is erroneous. I also have a regular with the leaves & fearing mats, and similar & regular capsules, in this life one. with & campestris! More about the Rhus. It is larger & spinal than R. aromatica in stem leaves & flowers & fruit. The fr is much stronger & more suffocating. Linnton Ridge. R. aromatica grows in sandstone. I have now found Isoetes Lakeana in several places 1000 ft. above the sea. It is frequent on the prairies at Linnton & also on the Kansas switches on the N. K. and T. R.R.

Yours truly
Geo D Butler

Apr 28" 1877

The mistakes I make sometimes are really communicative as it is probable in this should be. Sporophyll is my companion but until a few days since I mistook it for a Krigia
The Leptopoda tracky poda carpurpurea I had always taken for Helenium quadridentatum. When do the spores of Isoetes originate? They appear to be attached to nothing & still in stationary in the way in which they are suspended in the spore case

D.B.

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Rec May 21st
Ans — 25

Limestone Gap, Ind. Terr.
May 18th 1871.

Dr. Bro Engelmann
Dear Sir:

I can get seed of Petunia axillaris I think, 2 L- from about 10 miles from here — Cactus melanosperma is much more common than I supposed. Now in have been a species of flats where the chalice clay which underlies most of the country, comes to the surface. These places form the most distinct botanical localities I meet with. Such plants as come to maturity late in the season and grow in prairies and in dry soil occur in these flats. e-g- Amorpha psoralifolia Spindelia laciniata var? Coreopsis Drummondii &c.&c., Again, such plants as grow in wet places and which come to maturity early in the season also occur in these flats e-g- Amorpha Ptelea Genus sinuata Spermolepis Lindheimeri Rumex Engelmanni Cactus melanosperma &c.&c. Accordingly there are little pools or ponds in these flats, where water stands until it dries out then Cactus melanosperma is found, & Arkansana you will not suppose the soil and vicinity nearly entirely, while melanosperma occupy part of it, thus they mingle in the season & then respectively

Thursday May 1st 1913 Found for the second time Euphorbia [illegible] in the Grassy Prairie [illegible] the [illegible] beyond the middle [illegible] which was already [illegible] I think it will produce [illegible] the first week in June this year. I should say that [illegible] Euphorbia [illegible] although it is found in the [illegible] It is also rich with, on new high prairie sand stone ridges, and as it forms [illegible] I should say it requires dry soil, or sandy places.

Pentstemon albidus occurs [illegible] while [illegible] a few glabrous thick leaved specimens I have seen in [illegible] You [illegible] gave me the name P. pubescens now although in (8)!

I send you today a package containing

1. Bellis integrifolia Mx Prairies Apr. 16
2. Allium stellatum Jacq " " "
3. Lupinus cyaneopharus " " "
4. L. australis " " 23
5. I thought was sphaerocarpa but it seems not. Or hair 3, other species which I shall send hereafter. This plant spread from the root forming thick rather extensive patches. Pods elliptical. Young leaves silky pubescent. Collected April 20th and May 10th. Prairies, rare.

[illegible] Rhus aromatica var.? Limestone Ridge April 23.

7 Phacelia strictiflora Engelm & Gray. Prairies Apr 23

8 [illegible] Flava Grassy Roadsides " "

9 Spergula humifusa Prairies, Mar. 16 This I was not mistaken for Knigia because it is equally common. The [illegible] they grow together but the latter [illegible] earlier.

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10. Stellaria Nuttallii, Alkaline flats, May 5.
11. Potentilla [illegible] Dry woods, sandstone, " " Do this the two
    [illegible] it becomes it blossoms [illegible] Do this the two
    simpler.
12 Erigeron [illegible] Alkaline flats May 15.
13. Prenanthes. [illegible] Completely MX
    [illegible] rather in rocky [illegible] &
    [illegible] rocky gravelly, Port Leroy, flowers pendulous, perianth
    Dry woods, sandstone. [illegible] May 10, sometimes in prime
14. [illegible] [illegible] Mix Prairies May 10.
15. Zizia [illegible] aurea in damp, open woods, May 10.
16. Euphorbia obtusata Everywhere in dry soil and
    the alkaline flats, May 13.
17. Specularia Leptocarpa, a rather learned form
    which occurs in dry woods prairies, the
    most common form occurs in alkaline flats.
    This form is sometimes so pubescent as
    to filiculate which is a much better character
    May 13. I have never seen flowers over 5. th lobes on a
18. Delphinium azureum Prairies. May 13.
19. Yucca [illegible]? Alkaline flats May 14,
20 Iresine Herbstii "
21 Cynthia [illegible]ifolia Dandelion Prairies May 1876
22. Thymus [illegible] serpyllum var Nuttallii. " June 1876
    I believe you wished to see more material
    [illegible] Penn. I think you will find it
    marked [illegible] available from Carpenters!
23 Phelia [illegible] tenella? I am wholly unable to examine
    this to [illegible] the [illegible] I do not see any ap-
    pendages to the anthers. The calyx with the ribs and teeth
    [illegible] anthers long sharp. Stem minutely pubescent; leaves otherwise [illegible]
    [illegible] minutely pubescent; leaves otherwise [illegible]



[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [

Rec'd May 31st
" June 3d
Dr. Prof. Engelmann

Limestone Gap. Ind. Ter. May 29. 1877

I send you to-day

1. Fedia Nuttallii ? Alkaline flat, 5 miles N.W. Limestone Gap May 23 77
2. Isoetes Melanopoda, Low place in alk, flat 1/4 mile East Krow switch " 22 "
3. Corydalis crystallina, Prairie knolls. " 4 "
4. Leavenworthia Sears alternate, opposite & whorled on same plant, Low ground, " 23 "
5. Centunculus minimus, " " " " "
6. Isoetes Arkansana, Alk, flat, same place as 2, " 22 "
7. Amsonia tecta, Alluvial woods, North Boggy, Apr. 6 "
8. Compsis grandiflora, Prairies (Dry) May 18 "
9. Pentstemon albidus ? grisly, " " 16 "
10. Oenothera linifolia, Alk, flats, " 22 "
11. Krigia Caroliniana, Prairies &c " 17 "
12. Lathyrus pusillus, Woods, thickets, &c " 18 "
13. Monarda Russelliana, Dry woods; A peculiarity of this species is that the leaves has 2 or 3 flowers at once, Rarely. The corollas are rather fugacious, while the inflorescence is slowly centrifugal: A head bears flowers, about a month while a corolla lasts but about 3 days Springing from the root,
14. Fedia Nuttallii ? Marshy place, near an old salt house. 3 miles N.W. Krow switch May 19 77. I am not sure that I distinguish this species When I found it in 1875 it was too early, The locality seems to suit.
15. Silene aurea, Alk. flat near 14, The only place I know it to occur. May 19. 1877. also some seed in a small pkg.
16. Fedia ? Nuttallii ? minimus, Sandstone prairie ridge near 14, May 19, 77
17. Isoetes ? Nuttallii ? Please explain them; I have thought they were melanopodas that had got into too dry ground. Alk flat 1/2 mile northwest Limestone Gap Switch May 26, 1877.
18. Isoetes Arkansana " " " Same place & with former
19. Calochortus pulchella, Dry woods & prairies May 26/1877.
20. Trifolium reflexum Alluvial woods " 24 "
21. Hedeoma hispida Alk flats " 27 "
22. Galium Aparine Alluvial soil " 25 "
23. Baptisia sulphurea ? Prairies 3 ft high " 22 "
24. Galium circaezans, Limestone Ridge " 27 "
25. Phaseolus helvolus. Thickets " " " " "

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26 } Euphorbiaceae
27 } Euphorbia Both Limestone Ridge May 27, 1877.

28 Isuela melanopsa, Wet places, near 17 & 18, May 26, 1877
29, Cerastium Low ground Apr 2nd 1877 Could not get better specimens
30, Prunus, — Prunus March 30 " 2 ft high
31, Cerastium Low ground Apr 10 " Some what better specimens
32 Myosotis Alluvial woods Apr 16 "
33 Could not get later spec. Alluvial woods Apr 6. 1877.

I Lobelia which I gathered in Franklin Co Arkansas also belongs to the L. appendiculata DC. If you should think proper, I would be glad if you would make the species the subject of a note in the Bot. Gazette, correcting the quotation which I made in the May No.

Let me know how much Leaves you wish.

Hoping to hear from you ever I am

Yours truly

L. D. Butler

I shall find out what characterizes these plants. I have mentioned as soon as possible. I could not give up the study of Botany entirely under any circumstances.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



Rec June 12th
Ans same day

Limestone Sta. Ind. Ter.
June 9th. 1877

Dr. Geo. Engelmann;

Dear Sir:—

Your instructive letter is recd. I send you to-day a pkge cont'g,

1. Stillingia sylvatica Prairie knolls, June 2, 1877. Never grows in woods, root woody. The specimens are not old enough. Will get older ones if possible.
2. Cleomella angustifolia By the road side between Kiowa & L. G., introduced, June 2, 1877. Scarcely dry.
3. Phalaris intermedia Wet places, June 1, 1877.
4. Oenothera ekeasia rich bottoms, June 26, 1877
5. Umbellifera. But it is too young. May 23, 1877. Rich soil.
6. Pyrrhopappus. Along the R. R. Introduced. May 28, "
7. Linum usitatissimum " " " " " June 2 "
8. Hypoxacum Sactylodes. Wet places " 1 "
9. Scirpeous, M. is so striking that I thought you would know it at a glance, wet places, rare, June 1, 1877
10. Lythrum alatum Dry prairies, almost shrubby at the base, June 2, 1877.
11. Aceratis Andrep. stenophylla Gray angustifolia. What species of American aceratos are included in Asclepias? June 1, 1877. Prairies.
12. Oxybaphus angustifolius, Sims? Is this ever considered a var. of O. nyctaginens? It seems to me that I sent it to you before and you called it var. angustifolius. Prairies in dry soil. June 1, 1877.
13. Rotobrella cylindrica. The grains of the panicle are so easily

broken that it is almost impossible to keep them intact. June 1, Prairie
14. Dry prairie. Lepturus paniculatus var? Near Linestone Gap, June 2. 1877.
15. Rosa Lucida? Dry prairie & woods. June 1, 1877. Fruit!
16 Plantago Patagonica var gnaphalioides, 2 " , Prairie knolls.
17. Baptisia — Not the one I sent last, nor Sphaerocarpa
May 18. 1877. Prairie, Near Kiowa.
This has flowers yellow, stipules persistent; branches caducous;
leaves & legume roney; stem smooth; I was only able to gather
6 specimens of this species the most mature one of which was
destroyed by mischievous children. And now as to the
other Baptisia; it has the flowers of the color of Sphaerocar-
pa and no 17, and by coincidence of misfortune I could
only find 1 flowering stalk, from which I gathered the 4 branches which
bore flowers 2 of which I sent you, 1 of these having the largest
~~capsules~~ pods, At first there were several stems which would
have flowered but they were broken down by cattle, being near
a ranche, I gathered these for fear of like misfortune. I
will hereafter send you 1 more of the branches with the
flowers, which were collected May 22, 1877, Near Kiowa, before
B. leucantha, had even begun to bloom, Now I know
exactly the locality, and if you will suggest the proper
way of packing I will gather some of the roots & send you,
~~not 2 of the species and~~ my Sp. of Monarda have not been, they are at Kiowa,
I will send them hereafter.
18. Vaccinium arboreum Sandstone woods, around cliffs May 30, 1877
19. Crataegus Crus galli Sandstone, along streams, &c " " "
20. " (flava?) " " " " " "
21 Ilex decidua Alluvial " " " " " "
22. Hoskinia Purshiana, Sandy open woods & prairies " " "
23. Eupatorium ageratifolium Limestone Ridge, 27 "
24. Lobelia appendiculata DC Is this a correct Description? Stem simple, thick but weak, pentagonal, rough on the angles, 1°–3° high
leaves oblong ovate, 1"–3" long, becoming smaller toward the top of the stem
obtuse, thin, minutely pubescent, sessile; racemes loosely flowered, one-
sided or spiral; Calyx 10 ribbed, the ribs subtending the sinuses & long, thin
mouth by pairs shorter; Calyx lobes lanceolate; corolla 6" long, blue; its
tube smooth; tracts lanceolate, cut with the sinuses glandular denticulate. Annual, Sandy
Woods and prairies. May and June,

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I thought it would be best to describe it in the note for the Bot Gazette.

25. Daucus pusillus Wadsley. May 27, 1877
26. Corydalis crystallina Euryalus, Prairie Knolls, near Limestone Gap & Kiowa. I. T. May 21, 1877.
27. Baptisia 23. before
28. Leucaeta decora, var. latifolia Alk. flat June 2, 1877.

I do not know but these flats may be charged with the nitrate of Sodium or potassium. I have no means at my hands for chemical analysis, the salt occurs as an efflorescence occasionally, it on the flats. in the morning especially it may be seen as a white powder scattered around, I have noticed mention of a Prof. Nipher in St Louis. If it is Francis Nipher I am is a school mate of mine and a good chemist, possibly you know him and can give me his address. If I will submit it to him. I have called them Alkaline flats from habit, and because I have, not seen reason to pronounce them other wise, but I am not inclined to think them characterized by sulphates of Magnesium, Aluminium or Sodium. Wells hereabout are often injured by it, Some assert that the water purges, I am confident that an attack of Cholera morbus was caused by it (in the water) (myself) but whether the salt had any agency in it I could not say. I am not familiar enough with Epsom or Glauber's to know the taste. Again if meat or butter be preserved in a brine made with the water it keeps the meat rancid and turns the butter rotten, which it seems to me indicates salt petre. The water does certainly not act as a cathartic on one who is accustomed to it. There are some springs so strong with it, as to be unpalatable,
29. Leaf of Nemastylis acuta
30. " " Iridia Nuttallii. That appendage to the corolla is

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indeed curious. I am afraid that I will not be able to collect longifolia but I will try. I have collected a large number of Nuttallii than I need supposing part of them to be longifolia. I can send you 20 or 30 specimens if you wish. So it seems that longifolia can be distinguished even at considerable distance by a difference which you did not mention, i.e. the reddish tube of the corolla. It is too late now for the plants, but I may catch some stragglers.

31. seed of Lathyrus

32. " " Corispsis sp. mihi, Limestone ridge. I hung it in press, will send next time,

I will try to have your other desiderata ready by next time I send.

Yours truly

Geo. D. Butler

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Rec'd June 15th
via same day by AC

June 13th 1891

Ex Ep.

Dear Sir;-

Your welcome letter was
duly received, & uncommonly nice, but
I have been about ill & ~~ill~~ ever since I left
Ark[ansas] until you receive this; it is a
cancer-like, I will send a specimen in my
I have seen only 2 cases but have
no fear of the result. Do early see or it,
Rosa [illegible] I have written Lucida, I am
sorry to say it to you soon. I will send you more, I do
not think the common branches are [illegible] the
root, I have a specimen of a trunk about
inch & [illegible] this year. I will send more. Perhaps R. lucida occurs
in [illegible] R. setigera is not [illegible]. The
[illegible] are not [illegible] present in Lobelia [illegible] Sicculata
I gathered yesterday 130 [illegible] on about [illegible]
Sa; all that [illegible] find on [illegible] Thuyacum
[illegible] all macrospores or [illegible] 90 microspores,
36 all microspores or male
[illegible] from
[illegible] few more [illegible] I have [illegible] 2 female [illegible] some
thus [illegible] female [illegible] me Science or prose; I have not
in Pelvis [illegible]. But the [illegible] in melancholy
still in the milk. Macrospores original in
microspores in milky juice in [illegible] hip

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Am Jour 22
Aug — 26

Limestone Gap. 2nd Fer. June 20.

Dr. Geo. Engelmann

Dear Sir:

I send you to-day a pkge cont'g
1. Monarda Russelliana Nutt. Dry woods. May 21.
2. Specularia leptocarpa, Nutt. Dry prairies. I believe I told you before that I had never seen this nor S. Legouricana Nutt. in flower. They blossom very often and very commonly. The latter I always had called S. perfoliata. But I had not seen them yet this year when I wrote that, and I had forgotten last year's experience. The statement was unwarranted.
3. Cuscuta, on Ipomoea Limestone Ridge, Mt. plains, June 8.
4. Conopsis " " " "
5. Helenium tenuifolium. State Roadsides " 12.
6. Isoetes Arkansana Engelm. " 13 flat rocks Limestone Gap. These were collected before I knew that the plant was dioecious, consequently the male plants were thrown away thinking them to be poor malformed ones.
7. Lilaea scilloides, Limestone Valley, June 8. Prairie & thickets Frosts kill the plants of the first year. So that specimens can be found in unfavorable localities when there was not enough vegetation to burn. Thus my specimens are not as good as might otherwise be selected.
8. Petalostemon violaceus. but the flowers are not violet color June 8. Prairies.
9. Scutellaria versicolor. Thickets, uncommon June 8.
10. Desmanthus Acuminata Nutt. Prairies, June 8,
11. Fraxinus Americana, Limestone Ridge, " "
12. Monarda aristata " " " "
13. Silene stellata Thickets " "
14. Mentzelia oligosperma Limestone Ridge June 8
15. Eatonia obtusata, Prairies " 1
16. Isoetes melanopoda, June 13. Ark. to 6. This pkge
17. Wet places, June 14. Prairies
18. Plantago Patagonica var. aristata, Flats, June 14.

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19. Nyssa aquatica Arkansas June 17, Woods, Alluvial
20. Dracopis amplexicaulis, Wet prairies June 13.
21. Ptelea trifoliata, Knolls in woods, rare " 14.
22. Isoetes Arkansana June 16, flat mass 2 inches across Cap
I have been unable after careful search to find more
ripe specimens, 2 have learned to distinguish by the
velum which is necessary. In Arkansana the body of spore
is free at the upper end; while in melanopoda the velum comes
down over it like a cap,
I have told you that Isoetes flaccida was in Lesquereux's
catalogue of Arkansas plants, an unpardonable mis-
take in me, I was thinking of Nuttalls Isoetes
Texana,
23. Rosa setigera, In clumps in rather moist woods &
prairies. The most beautiful of all plants here, June 14.
24. Aprid Corydalis, April 10 & June 16, In rich mold, Drift pile,
The smooth pods are the feature
25. Isoetes, Not Arkansana, base of leaves pure white. Have
an some old spores with one specimen, It may not be
melanopoda. Alluvial, Deep shade, in the bed of
a dried up stream, June 16.
26. Ipomoea in wet places " 17 Dry soil
27. Rosa foliolosa, 2 pistils !! 17 Dry soil, very common
I understand that the 2 stigma corresponds to the stems.
of other species, as indicated by the minute scales thereon,
There are no ripe fruits yet, I send some sterile
branches but can find no stems such as
28. Prunus, I could find any little fruit, June 16, Prairies
29. " I suppose must be the same from the glands
on the petioles but otherwise it seems quite different
I could find no fruit with this, Size of shrub agrees with
No 28, 1½-2 ft high Dry prairies.
30. Polygala incarnata Prairies June 16,
31. Ipomoea verticillata, Dry soil
32. Astragalus Canadensis, Thickets " "
33. Isoetes Melanopoda, Pools & wet places, June 14,
Your pistil case is valid. I do not think I saw microspores &
microspores in same sporangium either, Ants crawl down in a
round the leaf bases often, especially after the
tops of leaves are dead leaving them a road, I paid very poor attention
to the circumstance, Have been unable to find it again, and think it was
probably accidental & foreign growth. And melanopoda often (Mead) has two young
to be certain of anything, Yours truly Lyd. D. Butler,

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec'd July 22

Bapt Quercus
Carya
subglauca
glabra
quercina
Castalis

Linnæan Club, Ind. Ter.
June 30, 1877.

Dr. Jos Engelmann
Dear Sir:

I send you apkg today containing
1. Sabbatia angularis Low prairies June 21
2. Baptisia leucantha. This makes 5 species I have sent you
June 14
3. Prunus. In sandy woods with black oak black
jack and nigra hickory. 1-2 feet high, fruiting
abundantly. This is the 8th Prunus I have found
or 8th form at least. Beside Cherry. June 23
4. Asclepias. You will notice that has 7 leaflets
while the others have 5. Fruit will be sent
hereafter. Banks of
5. Acacia-lutea Leaf "Flats, " " 23
6. Rumex. Wet places " " [a late specimen.] [illegible]
7. 6"a Panicum lineare? wit blades " " 10



less advanced make it different from
any species I know or have seen Descrip-
tion for: Linum Rigo
& Spiranthes Rosmarinus ? June 6
Brambles & thickets
9. Polygonum convolvulus introduced June 16
10 Panicum sanguinale " "
11 Aristida purpurea Flats " "
12 Paspalum stolonifera Introduced ? " "
13 Rumex crispus " "
14 Physalis Coloradis var ? " "
15 Ruellia hirsuta Rare. Fairly Extensive, occurring in Low " 18
16 Cyperus glomeratus Elsewhere obtuse with Juncus Nodosus " "
17 Ruellia ciliosa foliosa " 25
18 Cuscuta Epilinum " "
19. Cuscuta, Thickets Infesting Cu " "
20. Wet places gram " "
21 Eragrostis 1 Divaricatum introduced ? Roadside " "

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Rec July 11
Ans Same day by P.C.

Limestone Spgs. Ind. Ter.
July 8th, 1877.

Dr. Asa Engelmann

Dear Sir:-

That Conopsis is a perennial (the new one) and grows in patches spreading from the root.

Was the Lathyrus I sent to you the Texan L. pusillus or was it identical with your Ft Gibson plant?

The fruits of the new Prunus is not yet ripe. The stone of this plum is in shape very similar to the shell of certain bivalve mollusks

I visited the locality again where I collect my specimens of Isoetes melanopoda, part of which I sent you, a ditch in a field. Strange

to say I could find nothing but diatom specimens. There was this feature about the pool where I ~~collected~~ found the numerous specimens there was much more water than the usual ~~in~~ commonly occurs in. Today I have collected some numerous specimens which I shall send to you when dry. I will also (tomorrow) collect some microscopic bearing plants from the aforesaid ditch. The numerous plants which I collected to-day are also in a very dry condition. the water not being more than 2 or 4 ins deep off of them from appearances, and so it appears that numerous specimens of melanopoda are not apt to occur only in the wettest of places. Smith Bullers has about disappeared.

I would like to sell 2 or 3 thousand botanical specimens. The lot will be made up of 15 or 20 specimens of each species, and the species will



be the most interesting that occurs here. Could you tell me how to sell them, who to sell them to, or as what they would be worth?

I dislike the idea of selling them at all, but I do not see how I can avoid it.

On my way home I shall be apt to pass through St Louis. Physalis are not ripe yet. I fail to see any crossing into each other of Ph. lanceolata although they both grow together on the R.R. banks. The difference in stems seems to be constant as well. P. lanceolata angular, in 14. norma. (P. virginiana? Nutt.)

There is another species or form (small leaved) which I shall mention hereafter.

I will here mention another species readily by the time I hear from you again. I have a Commelyna which I do not know (C. angustifolia of Ell.?

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expedition perhaps) a Guillandina. Portu-
ense pilosa. Ephrosia onobrychoides.
for 3 Cuscutas
I would like to hear from you a-
gain before I go down to Caddo. which
will be soon.

Yours Truly
Geo D. Butler

Caddo is quite an important point
for Government trains. and perhaps
it has been visited by botanists.
and there may [illegible] plants found
there which it would be desirable
that I should collect. Can you
recollect any such?

Yours Truly
GDB

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Dear Sir

I have a few
more blanks and I now think
I shall certainly have them
by Sept 9 I shall add several
to the list I have
till are collected this year
and as they will enable
you to complete your collections of my snakes
so far as I have sent you speci-
mens of these species this year
you can judge of their quality
Specimens sent by me in 1874 or
1875 are not entitled to. I have
taken (as you may have noticed)
more pains in collecting such
species as my specimen of the
region than when they were widely
distributed.

I shall send you a package by
next time.

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Ler July 29
an — 25

Limestone Gap. Ind Ter.
July 20th. 1877.

Dr Geo Engelmann
3003 Locust St
St Louis

Dear Sir:

I send you today a package containing

1. Mt shady places June 28
2. Cuscuta dropt Prairies July 8
3. " arvum " " "
4. " " " " "
5. Petalostemon Candidus Prairies July 1
6. Croton entire pus grey June 28 Roadside
7. Hydrolea ovata July 8 Wet places
8. Commelyna " " Sandy woods
9. Gaillardia Lanceolata " " Prairie knolls
10. Ipomea melanopoda " 10 Prob. by the R.R. some of these specimens are male and some monoicous others female.
11. Lephrosia onobrychoides July 4
12. Cassia Corymbosa Reclinata " "
13. Ipomea melanopoda July 8. Shady prob.
14. Asclepias viticillata July 1. Prairies
15. Polygala sanguinea " 8 "
16. Hygrophus oblongifolius " 1 " Knolls
17. Cuscuta tubulosa " 13 Introduced
18. Vitis indivisa " alluvial woods June 29
19. Calyrompum hyssopifolium " " "

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21 Cottages to Lantana var mollis fr.

20. Sapindus Marginatus June 27. Creek banks

21 Coreopsis n. Sp. This is all I can spare unless it be a couple more specimens. I send you in this letter 2 heads of St. grass from Mill which I have detached from herb sp. Please compare and name

22 + 23 Prunus of June 23 & 16 - The mice carried off the plums and ate the contents of a number of fruits.

It will probably be in Sept. when I go home. Hoping to hear from you soon

Yours truly

Geo. D. Butler

" "

Rec Aug 25
Ans Sunday

Almont Iowa
Aug. 23. 1877.

Dr. Bro Englemann

Dear Sir:

It seems almost like a new country here, as the flora has such attractum. Water plants are very abundant, such as [illegible] Alismaceae &c. I shall be unable to devote any time to botany this autumn but next summer I intend to cat-alogue our flora.

I intend to sell some of my Indian Territory plants at the rate of ten dollars per set of 100 species.

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I think they might — it be worth that much any if they are not really the Obs. of specimens. inasmuch as the set will contain the rarest species. If you know any Botanists who would like to get them, I should be glad to send them a list.

Yours truly
Wm. D. Butler.
Alamo
Iowa

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Rec'd Nov 13
Ans — 14

Almont, Iowa, Nov 12, 1877.

Dr Geo. Engelmann

Dear Sir:-

I am thinking of having published my observations on the flora of the Indian Territory. I would like to have your advice in the matter, as to where I had better publish it, - in what form. whether a list of all the plants seen would be of sufficient interest to be included, with notes giving the exact locality and any peculiarity I may have noticed. How has your living Isoetes Butleri come out? Does the plant you raise preserve its peculiarities?

I have sent for some buckeyes of the Aesculus glabra var arguta Engelm and will send you some if I get them.

Yours truly
Geo. D. Butler.

I should be glad if you will send me a description of th Isoetes B. G.D.

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Ans Feb 12

1

Pilgrim. Iowa
Feb 9th. 1878

Dr. Sir Engleheart

Dear Sir—

I send you to-
day a MS which I propose
to publish, & wish if I may
offer any remarks in the
Editor Secretary, I should
be very glad if you would
attach any remarks to any
of the species which may
seem to demand it. And
the Co-operation-ship I seek notes
will be credited to you.
Then please return the MS
and I will copy it again
Mr Booth has my Cyperaceæ
under consideration at present


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I can not include them just now. The list will contain only a total 800 species in all.

I remain Yours Truly
Thos. D. Butler

P.S. I am going to apply to Wm. Ridgeway for a position as botanist for one of the exploring parties for next season.

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Dowa

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either

I also enclose

I also enclose the stamps
for postage on Mr. Boott's
may be sent for Account an
other.
Hoping to hear from you
in regard to that Sedum
I remain
Yours Truly
Geo. L. Buller

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Dear Sir: The Juniper is a straggling shrub
hanging down on bluffs. the stem generally
about ½ inch thick. I have not seen it
more than 2 inches. It is almost a vine.
I send you another twig with leaf and
a Juniper which I take to be
J. communis, and of which I could find
no fruit. Yours truly
Geo D Butler

Monroe Iowa Apr 19 1878
May not my Rottboellia be R. compressa, Mill?

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POSTAL CARD.

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

U.S. POSTAGE ONE CENT

STATION AUG 20 1901

ST. LOUIS MO. DEC 14 1901

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Dr. Geo. Engelmann
3800 Locust St
St Louis
Mo.

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Rec July 6
ans — 11

Almont, Iowa
July 4th 1878

t
to Dear sir:—

I send you to-day
at 8— aquatic Not mosquito
e 9— Vitis Bluff of the Mississippi,
10— " ripaia common,
11 & Panicum latifolium, subsequent.
12— Echinospermum Lappula wayside
13— Lysimachia lanceolatum Bottoms of Miss.
14— Introduced, Satyrium formosum
15— Lilium superbum Thicket
16. Panicum dichot small Prairie
17. Sagittaria heterophylla Ponds
18. Echinospermum ~~floridum~~ Lappula on
the Bluffs of Mississippi
19. Aristida gracilis or ~~possibly~~ A. fasciculata
Solicit the seed!!
20. Amelanchier Canadensis — Woods
21. Sparganium simplex Pools



22, Lathyrus palustris,
I enclose proof of the Baptisia
as they are set up. and then
~~I~~ added the words Indigenous
tory which ~~seem~~ is necessary.
Please forward to Mr. Coulter.
Quercus Michauxii has failed
to fruit this year
Could it be possible that the
oak I sent before, which you
call Q. rubra, is Q. palustris?
The fruit across the[illegible] from
and tree appear unlike Q. rubra.
They will come to you next time.
I cannot find Viola ~~sp~~ cucullata
yet.

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We have a great many aquatics
here. but I have seen no Sorbus
yet. Nelumbium luteum and
Nymphea tuberosa both common
A great density of Sagittaria
some with petioles 6 feet to 8 feet
long while the leaf is only 6 inches

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or such a matter and my garrow
I gathered a White Ranunculus which
seems of S. sulike trichophyllus,
I find Limnobis Jamesii Lem.
I think I also have Elymus mollis,
They are to be included in
my next package.
Perhaps this may be
here. I have had a considerable
knowledge of this species, seeing
it so much and I can not
believe that it runs into O. ob-
longifolius, Where it has room
it throws branches widely, while oblong-
folius is quite stict, Grows
of different size & color, &c &c
Yours Truly
Geo. D. Butler
Do you remember my Grindelia
from Del. Ter.?. I have a stump
notion to get some more of it.
I can get some at an expense
of 2 or 3 Dollars, and if you

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think it possible that it may be a new species. I will get it. It grew in the sulphate flats but was also introduced into a certain yard where it waxed great, 4-6 feet high, and a remarkable looking plant that anyone could recognize though not a botanist if a leaf had ever been shown them. I found a new Carex down there, but my specimens are not old enough. I have the locality so well marked that I shall get some more of it, as I did this spring but the plant was lost in the mulch. I also found Isolepis carinata + Sclerias pulchella + Carex acuta L. My Prunus gracilis is doing well. All 8 roots have sent up 3 or 4 stems apiece, which are 3-4 inches high, + two or three inch DD these mature it certain that I got the right roots

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Rec'd July 16'

Alumt, Iowa
July 15th 1878

Dear Liz:-

I send you some more
plants to-day,

22. Lathyrus palustris, Banks &c.
23. Juncus, ? Low places,
24. Mimulus Jamesii Torr, Limestone Springs,
25. Rumex ~~scutatus~~ Marshes,
10. Vitis riparia. Hillside, Gathered
later than specimens sent before
and yet here are the flowers, &
26. Scirpus — ? Ponds &c.
27. Nuphar ? Ponds: in water 2-3 ft deep.
28 Euphorbia polyphaga on. Wet places
29. Nasturtium — ? Muddy shores of Rivers,
18. I send you 2 more specimens
which are better than the first one
which has been broken during its
growth, Also some seed which I
have raked off, which you can send to

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Cambridge if you chose. I am glad
to hear you found it interesting a speech.
Yesterday I gathered some more
of it. I will send you some more
next time if you desire it.
This is the easternmost point in
the state of Iowa which notes it upon interesting
30. Potadwoyetin —! Ponds along the
Mississippi
31. Sagittaria — ! Pools &c.
32. Equisetum robustum — ! Prairies, Swamps,
33. Grass. Bluffs of the Mississippi
34. Sclaria triglumerata.
35. Ranunculus aquatilis var. divaricatus Pools along Rivers
36. Elymus Bluffs of the Mississippi
37 Elymus " " "
38 Elymus " " "

I received a few days since a catalogue
of the phenogamous plants of Iowa, by J. C. Arthur
of "Iowa Agricl Coll." It is a very defec-
tive list as far as this part of the state
is concerned.
Spiraea Aruncus. Vitis aestivalis. Sagittaria

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Leiophylla, Cirsium lanceolatum, Scirpus fluviatilis, Carex perlucidata, Nasturtium lacustre
N. sessiliflorum, N. Armoracia, Bidens connexa
reflexum, Arabis hirsuta, Amaranthus
stricta, Scirpus lineatus, Phlox paniculata
P. subulata & oh! so many more which
you have not left out. I found nearly
as many species in the Indian Territory
as are in this Catalogue & yet I meant
trying to see how many I could find.
There are 979 species in the Catalogue by
numbering 6-3 varieties. Deduct these and
there are 926 only. Prof. Aughey's Catalogue
of the Flora of Nebraska Plants contains
671 species & varieties, but I am
afraid he guessed at some of it.
Miller's Catalogue of Suffolk Co. N. Y.
plants, contains 844 species of Phenogams, without the varieties, & since his
Catalogue was printed (1874) he has
added many species. We will have
to do better. Mr Burgess has (he says
I see) 40 or more species in his herbarium
from Iowa, which are not in the catalogue

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& yet Prof. Beasey & Arthur on one side
& Rev. Burgess on the other; all in the same
town, men who love nature & probably God,
hate each other so heartily that probably
his plants will be left out of the address
(Burgess)
soon to be published by Mr Arthur
Excuse this botanical scrawl.
My dear Dr. Gray is an annual
I only intend to get dry plants such
I will be on hand in September
I have 2 specimens of Corispis lanceolata
gathered in this county by Mr. Burgess
which have quite a different aspect
from my dry Gen. C. lanceolata, var, but
there are probably poor specimens
Have you the specimens I sent you
yet. I hope so. Here is another opportunity
for investigation
There is a honey locust near here
which has only pinnate leaves throughout.
I found Circaea Lutetiana here to-day with
stipules, more or less conspicuous on the
younger leaves of all the plants I examined.
I have a curious Chenopodium which ought to be C. glaucum
but the leaves are much larger and different both from a
specimen sent me by Judge Clinton. It is linnæanum
here anyhow. & may be C. Boscianum may. I study last
of the bluffs. A specimen of this last from Dr. J. Porter
looks quite different, but is labelled from an
analogous locality. "Shady copses." My stalk &
L.J. "Wayside plantains" are P. Rugelii. (Indigenous)
which also grows here and in Indiana. I have
also found one plant of P. major which seems to
be very rare & probably introduced. I have a
genuine spec. of P. major from Europe. with which
to compare.

I came very near forgetting to tell you

about that No. 9. Vitis aestivalis?
It grows by the name "Bull grape"
in this vicinity. The fruit is large
½ inch in diameter. Tastes like
the "Clinton" & makes superior wine.
It does not mature until frost
or the latter part of October. I think
it was V. Labrusca.
I have gathered here specimens of
Salix humilis ♂♀
discolor ♂♀
petiolaris ♂♀
cordata ♂♀
nigra ♂♀
longifolia ♂♀
lucida ♀
} Bebb
Populus monilifera ♂♀
tremuloides ♂♀
grandidentata ♀
} Watson
I will send you any of these if you

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desire.

Yours Truly
Geo. D. Butler

Missouri Botanical Garden
George Engelmann Papers

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a Nov 22 1878
as — 23;

Almont. Iowa
Nov. 19th 1878

Dr. Geo. Engelmann

Dear Sir:-

I received a postal card from you on your return to St. Louis, in which you said that you believed that you had named the doubtful plants in my last package I replied that you were mistaken and not having heard from you since, I have concluded that my notes did not reach you.

I shall be glad to hear from you.

I shall go to California next Spring beyond a doubt

I have several friends living in Siskiyou Co. This I may-
me is one of the most ouliest
my regions of the state.
Mt. Shasta, the Lava beds,
the Klamath rivr are all
then in reach. Then is na-
ture in a reckless mood.
I have pictured all thee
things to my-self and im-
agination adds more glowing
colors at every ~~the~~ reach. yet
I fearing the reality will
disagf my picture.
I shall teach school prob-
ably, as I am doing now.
Yours truly
Geo. D. Butler

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Rec Nov 27
Ans Jan 15. by D.C.

Almont, Iowa,
Nov 26th 1878.

Dr, Geo. Engelmann

Ddar Sir:-

Yours of Nov 24
recd, I am much pleased
to hear from you again.
I trust that ere this you
have regained your health
completely. I shall gathered
no mature acorns but
may possibly be able to do
so ere long. Yes Vitis aestiv-
alis grows here and is I believ
somewhat peculiar. I will
hereafter send you mature
fruit of that species. I gath-
ered some of the young grape
V. riparia, but not pistil-
late flowers that I can remem-

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ber I found Geum mac-
rophyllum Chenopodium
fruticale & C. Boscianum here
all indigenous.
I believe that the Rev. E.
L. Greene was at one time
in Yreka, Siskiyou Co
California, but I believe
he is not there now. Where is
he. I shall take great
pleasure in gathering what-
ever may interest you & I shall try to make
good specimens of such
as I do collect.
The acorn which you sent
me was shrivel to atoms
a few scales seem to show
their nature. I believe I
have somewhere a few acorns
of that species from the
Indian Territory
I should be glad to have

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mon of California. I will
start with 4 months.
I would like to sell my
collection of specimens before
I go. It consists of about
3500 species represented by
5 or 6000 specimens, would
it be worth 200 dollars?
I will take that much for
it.

Yours truly
Prof. O. Butler

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MISSOURI
GEORGE ENGELMANN HERBARIUM

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Ans Portland July 30th
30

Ans 5th July
Ans 2nd

7

Ore Find, Siskiyou Co. Cal.
June 26th, 1880.

Dr. Geo. Engelmann,
3003 Locust St.
St. Louis, Mo.

Dear Sir:-

I learn from the newspapers, that you, Dr. Parry & Prof. Sargent, intend to visit this region sometime this season. I wish to go with you while you are in this county, It will be of incalculable benefit to me, and I may thus be better able to assist you after you have gone. I have been unable to study botany any since I have been here, but hereafter I hope to resume the

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study with unabated zeal.
You will probably come to Yreka
first. I wish to know when to
meet you there. Please drop
me a line,

Yours Truly
Geo. D. Butler.

P. S. I hope you will be able
to make an excursion into the
Salmon River range east of
Scott river. I have been there
hunting. There appear to be
12 species of Coniferae there.
I am living convenient to them
in Scott Valley. Good pack
trail, beautiful scenery and
plenty of snow in August. There
are lakes not far from the sum-
mit.

Y. D. B.

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